



KINGFISHER CONTROLS

Making Better Sense For You

Portable Sensor Tester

2016



ACCESSORIES

INDUCTIVE

METAL FACE

HIGH/LOW TEMPERATURE

PHOTOELECTRIC

ULTRASONIC

ADAPTIVE

CAPACITIVE

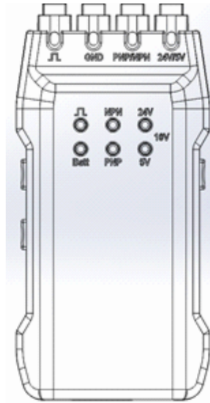
QUICK CONNECT CABLES

CUSTOMIZATION

www.KFCONTROL.COM

Test Box -Rechargeable

Test Box



L 118.6mm, W 63.5mm, H 23.4mm
 L 4.67in, W 2.50in, H 0.92in

Specification	Mobile Test Box	Features						
Sensor Styles	PNP, NPN. 2-wire DC	Rechargeble Batteries NPN/PNP Autodetect 2-Wire DC selection to reduce power 3 Selectable Output Voltages Resetable Short Circuit Protection Programmable Buzzer: Volume Control Power Savings 11V Voltage Section to improve battery life No problematic slide switches Sleep Mode when not in use NiMH Chemistry for safe transport Settings are saved on Power-Down Programmable LED Brightness Reset to factory values						
Output Voltage: Selectable	5V +/-5% 11V +/-5% 22V +/-5%							
Battery Chemistry	NiMH							
Battery Capacity	2400mA-Hour							
Operating Time (Full Charge) using 5mA sensor power	<table border="1"> <tr> <td>5V</td> <td>96 Hours</td> </tr> <tr> <td>11V</td> <td>48 Hours</td> </tr> <tr> <td>22V</td> <td>24 Hours</td> </tr> </table>		5V	96 Hours	11V	48 Hours	22V	24 Hours
5V	96 Hours							
11V	48 Hours							
22V	24 Hours							
Output Current	<table border="1"> <tr> <td>5V</td> <td>250mA</td> </tr> <tr> <td>11V</td> <td>250mA</td> </tr> <tr> <td>22V</td> <td>125mA</td> </tr> </table>		5V	250mA	11V	250mA	22V	125mA
5V	250mA							
11V	250mA							
22V	125mA							
LED Indicators (6 total)	NPN/PNP, Battery Level, Voltage Select							
Buzzer	Programmable On/Off/Volume							
Power Savings	Sleep mode, LED dimmer, Voltage select							
Enclosure Rating	Dust Proof							
Operating Temperature	-10C-+50C							
Protection	Short Circuit, Resetable							
Case Material	PBT							
Connection Type	Spring Clamps							
External Charging	USB Port 2.0 Connector 5V +/- 10% Output							
Battery Charging	USB Micro B Connector 3V-6V Input							
Battery Charge Time (500mA)	5 Hours							

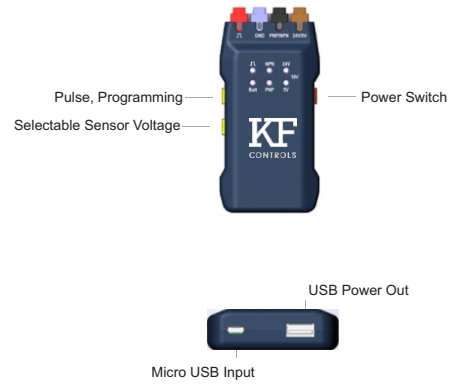
Test Box -Rechargeable

Test Box

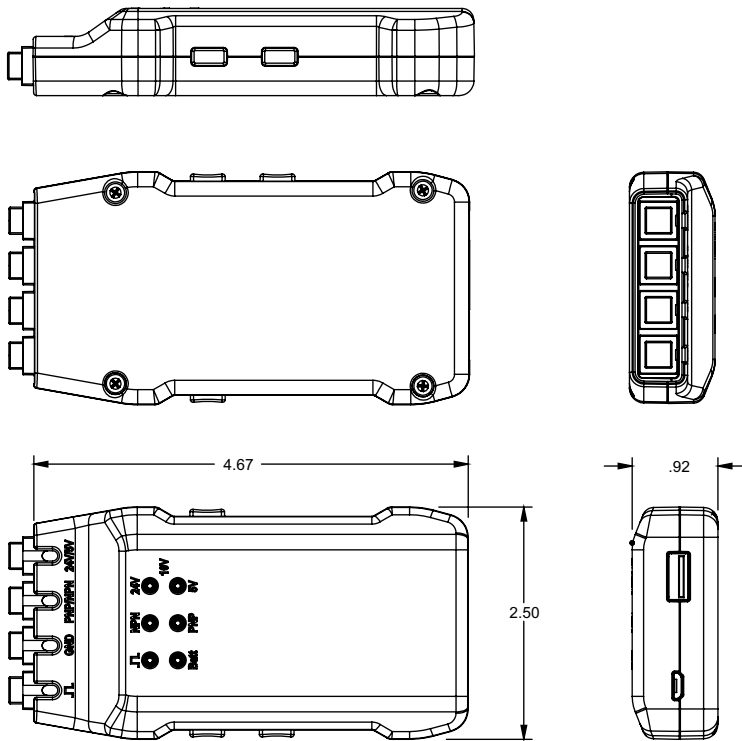
Simple Operation

1. Press Power
2. Scroll through voltage selection
3. Connect Sensor
4. When sensor is actuated the correct PNP/NPN will light and the buzzer will sound

Note: Setting will be saved on power-down

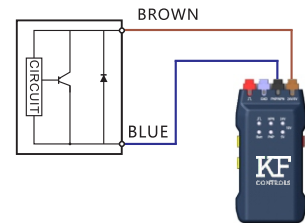


Dimensions

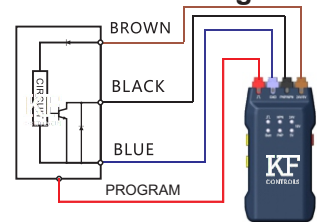


Connection/Mode

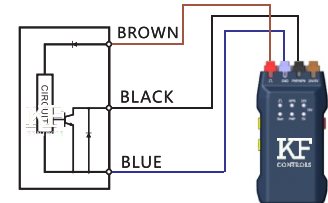
2-Wire



3-Wire with Programming



Pulse Power



Test Box -Rechargeable

Button Functions

Power Button

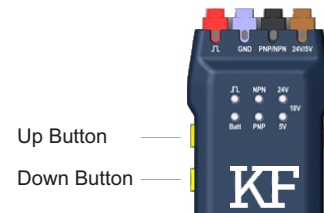
Function	Action	Response
Power ON	Single Press PS	Speaker sounds
Power OFF	Double Press PS	Speaker sounds and Settings are saved (1)

1 LED Brightness, Buzzer, and Voltage Level



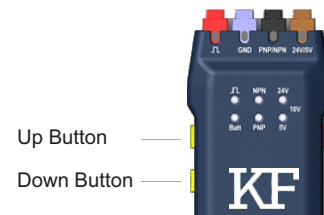
Down Button

Function	Action	Response																								
Voltage selection	Single Press DN	Voltage scrolls through choice of OPEN, 5V, 11V, or 22V after each DN press. The LEDs lights to indicate: <ul style="list-style-type: none"> OPEN <table border="0" style="display: inline-table; vertical-align: middle;"> <tr><td>24V</td><td>○</td></tr> <tr><td>10V</td><td>○</td></tr> <tr><td>5V</td><td>○</td></tr> </table> 5V - Lower Voltage LED <table border="0" style="display: inline-table; vertical-align: middle;"> <tr><td>24V</td><td>○</td></tr> <tr><td>10V</td><td>○</td></tr> <tr><td>5V</td><td>●</td></tr> </table> 11V - Both Voltage LEDs <table border="0" style="display: inline-table; vertical-align: middle;"> <tr><td>24V</td><td>○</td></tr> <tr><td>10V</td><td>●</td></tr> <tr><td>5V</td><td>●</td></tr> </table> 22V - Upper Voltage LED <table border="0" style="display: inline-table; vertical-align: middle;"> <tr><td>24V</td><td>●</td></tr> <tr><td>10V</td><td>○</td></tr> <tr><td>5V</td><td>○</td></tr> </table> 	24V	○	10V	○	5V	○	24V	○	10V	○	5V	●	24V	○	10V	●	5V	●	24V	●	10V	○	5V	○
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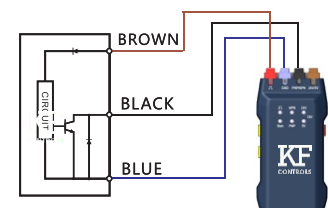


Up Button

Function	Action	Response				
Pulse Power	Single Press UP	The Sensor PWR voltage is applied to the Pulse RED spring clamp as long as the UP button is depressed. When the UP button is released the voltage is removed from the RED spring clamp Pulse LED On when UP depressed <table border="0" style="display: inline-table; vertical-align: middle;"> <tr><td>FL</td><td>●</td></tr> <tr><td>Batt</td><td>●</td></tr> </table>	FL	●	Batt	●
FL	●					
Batt	●					
Buzzer Toggle	Double Click UP	Buzzer toggles between ON and OFF				



Pulse Power



Test Box -Rechargeable

Indicator Status

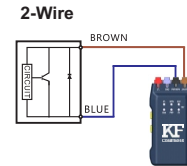
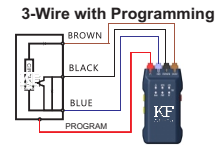
Battery Status

Function	Action	Response
Battery Charge Level	Click PS	<p>After clicking the PS button all 6 LEDs will indicate charge level for 2 seconds. All 6 LEDs lit indicate full charge. Each LED off indicates a percentage from full charge. The lowest level of charge is indicated by only the RED LED lit.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>50%</p> </div> <div style="text-align: center;"> <p>100%</p> </div> </div>



Sensor Output Status

Function	Action	Response
Sensor Output Detection in 3-wire Mode	Sensor Testing On/Off	<p>If Sensor out is activated the corresponding NPN or PNP LED will Light and Buzzer will sound.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>NPN</p> </div> <div style="text-align: center;"> <p>PNP</p> </div> </div>
Sensor Output Detection in 2-wire Mode	Sensor Testing On/Off	<p>If Sensor out is activated both NPN and PNP LEDs will light to indicate a 2-wire sensor is activated and Buzzer will sound.</p> <div style="text-align: center;"> </div>



Programming

2- Wire Mode OR 3-Wire Mode

Press and hold PS until both NPN and PNP LEDs blink

Double click to select 2-wire programming mode

Press UP to select 2-wire mode (Both NPN and PNP LEDs are on and Beeps)

OR

Press DN to select 3-wire mode (PNP LED is on and Beeps)

Double click on PS when desired style is selected (Both NPN and PNP LEDs are on)

Press and Hold PS until Batt LED lights to end programming mode

Volume

Press and hold PS until both NPN and PNP LEDs blink

Click UP to select Volume programming mode (All LEDs are off and buzzer beeps)

Double click to select Volume mode

Press UP to increase Volume (LEDs will show level increase)

OR

Press DN to decrease Volume (LEDs will show level decrease)

Double click on PS when desired Volume is selected (Both NPN and PNP LEDs are on)

Press and Hold PS until Batt LED lights to end programming mode

LED Dimmer (Note LED brightness will affect battery life)

Press and hold PS until both NPN and PNP LEDs blink

Click DN once OR UP 2 times to select Dimmer programming mode (LEDs cycle brightness options)

Double click to select Dimmer mode

Press UP to increase Dimmer (LEDs will show level increase)

OR

Press DN to decrease Dimmer (LEDs will show level decrease)

Double click on PS when desired Dimmer option is selected (LEDs cycle brightness options)

Press and Hold PS until Batt LED lights to end programming mode

Factory Default (LED Dimmer, Buzzer, Voltage, 3-Wire)

Press and hold DN and UP buttons together

Click PS button